



## Teaching Guide

Teaching Guide				
Identifying Data				2023/24
Subject (*)	Final Year Dissertation	Code	730497219	
Study programme	Mestrado Universitario en Enxeñaría Industrial (plan 2018)			
Descriptors				
Cycle	Period	Year	Type	Credits
Official Master's Degree	2nd four-month period	Second	Obligatory	15
Language	SpanishGalician			
Teaching method	Hybrid			
Prerequisites				
Department	Ciencias da Computación e Tecnoloxías da InformaciónCiencias da Navegación e Enxeñaría MariñaEmpresaEnxeñaría CivilEnxeñaría IndustrialEnxeñaría Naval e IndustrialFísica e Ciencias da TerraMatemáticas			
Coordinador	González Castro, Manuel Jesús	E-mail	manuel.gonzalez@udc.es	



<b>Lecturers</b>	<p>Abad López, María José          Amado Paz, José Manuel          Artiaga Diaz, Ramon Pedro          Barreiro Villaverde, David          Bellas Bouza, Francisco Javier          Calvo Rolle, Jose Luis          Camba Fabal, Carolina          Caño Gochi, Alfredo del          Cardenal Carro, Jesús          Castro Rascado, Alberto          Crespo Pereira, Diego          Cruz Lopez, María Pilar de la          Deibe Díaz, Álvaro          Duro Fernández, Richard José          Fraguela Díaz, Feliciano          Garcia del Valle, Alejandro          Garcia Diez, Ana Isabel          González Castro, Manuel Jesús          Gonzalez Filgueira, Gerardo          Gosset , Anne Marie Elisabeth          Graña Lopez, Manuel angel          Jove Pérez, Esteban          Lamas Rodríguez, Adolfo          Lema Rodríguez, Marcos          López Beceiro, Jorge José          López López, Manuel          López Peña, Fernando          Meizoso López, Maria del Carmen          Mier Buenhombre, Jose Luis          Naya Villaverde, Miguel Ángel          Pernas Álvarez, Javier          Prieto Garcia, Abraham          Quintián Pardo, Héctor          Ríos Prado, Rosa          Sanjurjo Maroño, Emilio          Santome Couto, Emilio          Tobar Vidal, María José          Vazquez Rodríguez, Santiago          Zaragoza Fernandez, Maria Sonia</p>	<b>E-mail</b>	<p>maria.jose.abad@udc.es          jose.amado.paz@udc.es          ramon.artiaga@udc.es          david.barreiro1@udc.es          francisco.bellas@udc.es          jose.rolle@udc.es          carolina.camba@udc.es          alfredo.cano@udc.es          jesus.cardenal@udc.es          alberto.castro@udc.es          diego.crespo@udc.es          pilar.cruz1@udc.es          alvaro.deibe@udc.es          richard.duro@udc.es          feliciano.fraguela@udc.es          alejandro.garcia.delvalle@udc.es          ana.gdiez@udc.es          manuel.gonzalez@udc.es          gerardo.gonzalez@udc.es          anne.gosset@udc.es          manuel.grana@udc.es          esteban.jove@udc.es          adolfo.lamasr@udc.es          marcos.lemma@udc.es          jorge.lopez.beceiro@udc.es          manuel.lopez.lopez@udc.es          fernando.lopez.pena@udc.es          carmen.meizoso@udc.es          jose.mier@udc.es          miguel.naya@udc.es          javier.pernas2@udc.es          abraham.prieto@udc.es          hector.quintian@udc.es          rosa.rios@udc.es          emilio.sanjurjo@udc.es          emilio.santome@udc.es          maria.jose.tobar@udc.es          santiago.vazquez@udc.es          sonia.zaragoza1@udc.es</p>
<b>Web</b>	moodle.udc.es		
<b>General description</b>	Realización, presentación e defensa dun exercicio orixinal realizado individualmente ante un tribunal universitario, consistente nun proxecto integral de Enxeñería Industrial de natureza profesional no que se sintetizen as competencias adquiridas nos ensinos.		

Study programme competences / results	
Code	Study programme competences / results
A24	TFM - Realization, presentation and defense, once all the credits of the syllabus have been obtained, from an original exercise carried out individually before a university court, consisting of a comprehensive project of Industrial Engineering of a professional nature in which the competences acquired in the teachings.



B1	CB6 - Possess and understand knowledge that provides a basis or opportunity to be original in the development and / or application of ideas, often in a research context.
B2	CB7 - That students know how to apply the knowledge acquired and their ability to solve problems in new or unfamiliar environments within broader (or multidisciplinary) contexts related to their area of study.
B3	CB8 - That students are able to integrate knowledge and face the complexity of making judgments based on information that, being incomplete or limited, includes reflections on the social and ethical responsibilities linked to the application of their knowledge and judgments.
B4	CB9 - That the students know how to communicate their conclusions -and the knowledge and ultimate reasons that sustain them- to specialized and non-specialized audiences in a clear and unambiguous way.
B5	CB10 - That students have the learning skills that allow them to continue studying in a way that will be largely self-directed or autonomous.
B6	G1 - Have adequate knowledge of the scientific and technological aspects in Industrial Engineering.
B13	G8 - Apply the knowledge acquired and solve problems in new or unfamiliar environments within broader and multidisciplinary contexts.
B14	G9 - Be able to integrate knowledge and face the complexity of making judgments based on information that, being incomplete or limited, includes reflections on social and ethical responsibilities linked to the application of their knowledge and judgments.
B15	G10 - Knowing how to communicate the conclusions -and the knowledge and ultimate reasons that sustain them- to specialized and non-specialized publics in a clear and unambiguous way.
B16	G11 - Possess the learning skills that allow to continue studying in a self-directed or autonomous way.
B17	G12 - Knowledge, understanding and ability to apply the necessary legislation in the exercise of the profession of Industrial Engineer.
C1	ABET (a) - An ability to apply knowledge of mathematics, science, and engineering.
C3	ABET (c) - An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
C6	ABET (f) - An understanding of professional and ethical responsibility.
C7	ABET (g) - An ability to communicate effectively.
C8	ABET (h) - The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
C9	ABET (i) - A recognition of the need for, and an ability to engage in life-long learning.
C11	ABET (k) - An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Learning outcomes

Learning outcomes	Study programme competences / results		
Posta en práctica dos coñecementos adquiridos no desenvolvemento dun tema aplicado específico. Realización dun proxecto integral de Enxeñaría Industrial de natureza profesional no que se sintetizen as competencias adquiridas nos ensinos.	AJ24	BJ1 BJ2 BJ3 BJ4 BJ5 BJ6 BJ13 BJ14 BJ15 BJ16 BJ17	CJ1 CJ3 CJ6 CJ7 CJ8 CJ9 CJ11

Contents

Topic	Sub-topic
Tema único	Realización, presentación e defensa dun exercicio orixinal realizado individualmente ante un tribunal universitario, consistente nun proxecto integral de Enxeñaría Industrial de natureza profesional no que se sintetizen as competencias adquiridas nos ensinos.



## Planning

Methodologies / tests	Competencies / Results	Teaching hours (in-person & virtual)	Student?s personal work hours	Total hours
Supervised projects	A24 B1 B2 B3 B4 B5 B13 B15 B14 B16 B17 B6 C1 C3 C6 C7 C8 C9 C11	135	225	360
Personalized attention		15	0	15

(\*)The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

## Methodologies

Methodologies	Description
Supervised projects	Realización, presentación e defensa dun exercicio orixinal realizado individualmente ante un tribunal universitario, consistente nun proxecto integral de Enxeñería Industrial de natureza profesional no que se sintetizan as competencias adquiridas nos ensinos.

## Personalized attention

Methodologies	Description
Supervised projects	<p>La atención personalizada en tutorías es importante para el seguimiento del alumnado y la resolución de las dificultades que puedan encontrar en el aprendizaje de los conceptos de las sesión magistrales, en la resolución de los problemas, y de la realización de las memorias y hojas de cálculo de las prácticas de laboratorio.</p> <p>La prácticas de laboratorio se realizarán en parejas, dentro de grupos reducidos. Esto permite a los docentes prestar una atención personalizada en el laboratorio. En cada momento, cada pareja está realizando una práctica diferente, y las parejas van rotando a lo largo de la sesión.</p> <p>Al alumnado con reconocimiento de dedicación a tiempo parcial y dispensa académica de exención de asistencia se le podrá adaptar los horarios de tutorías y prácticas de laboratorio para hacerlos compatibles con sus circunstancias laborales y personales.</p>

## Assessment

Methodologies	Competencies / Results	Description	Qualification
Supervised projects	A24 B1 B2 B3 B4 B5 B13 B15 B14 B16 B17 B6 C1 C3 C6 C7 C8 C9 C11	Realización, presentación e defensa dun exercicio orixinal realizado individualmente ante un tribunal universitario, consistente nun proxecto integral de Enxeñería Industrial de natureza profesional no que se sintetizan as competencias adquiridas nos ensinos.	100

## Assessment comments

Esta asignatura regularase polo "Regulamento para a realización do traballo de fin de grao ou mestrado da Escola Politécnica Superior" e os procedementos asociados que se publicarán en Moodle. Non se admite a dispensa académica. A avaliación en 2ª oportunidade e na convocatoria adiantada (decembro) será igual que en 1ª oportunidade. A realización fraudulenta das probas ou actividades de avaliación, unha vez comprobada, terá as implicacións contempladas na normativa vixente (Regulamento disciplinar do estudiantado da UDC).
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## Sources of information

Basic	
Complementary	

## Recommendations

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Subjects that it is recommended to have taken before

Subjects that are recommended to be taken simultaneously

Subjects that continue the syllabus

Other comments

A entrega dos traballos documentais que se realicen nesta materia realizarase a través do Campus Virtual, en formato dixital sen necesidade de imprimilos.

(\*)The teaching guide is the document in which the URV publishes the information about all its courses. It is a public document and cannot be modified. Only in exceptional cases can it be revised by the competent agent or duly revised so that it is in line with current legislation.